

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P259185

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2066.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

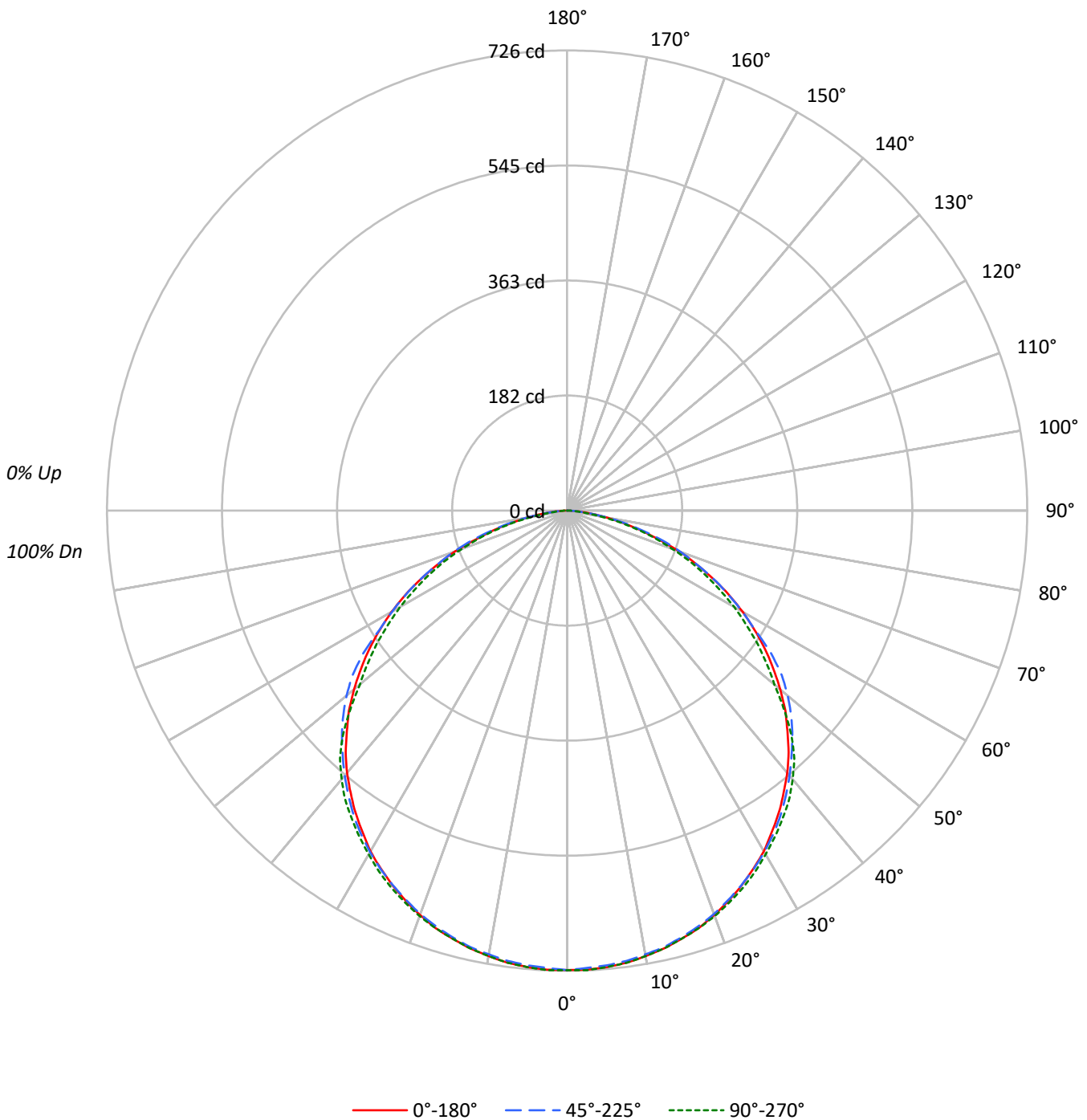
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1951	1951	1951
5°	1953	1945	1953
10°	1950	1943	1950
15°	1948	1942	1948
20°	1944	1940	1950
25°	1936	1934	1949
30°	1929	1933	1946
35°	1913	1929	1947
40°	1898	1917	1944
45°	1870	1912	1904
50°	1837	1901	1787
55°	1789	1842	1720
60°	1721	1717	1638
65°	1613	1622	1533
70°	1481	1497	1388
75°	1245	1303	1186
80°	987	1009	835
85°	648	562	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.3
10°-20°	197.3	9.6
20°-30°	301.3	14.6
30°-40°	367.6	17.8
40°-50°	384.5	18.6
50°-60°	340.4	16.5
60°-70°	250.6	12.1
70°-80°	129.8	6.3
80°-90°	25.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	567.3	27.5
0°-40°	934.9	45.3
0°-60°	1659.8	80.3
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	723	723	720	723	723	69
15°	699	699	697	700	699	197
25°	652	652	652	656	656	301
35°	582	584	587	593	593	364
45°	491	496	502	507	500	379
55°	381	389	393	372	367	340
65°	253	269	255	245	241	251
75°	120	128	125	118	114	128
85°	21	22	18	16	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.0	725.0	725.0	725.0	725.0
2.5°	725.0	725.0	722.2	725.0	725.7
5°	722.9	722.9	720.1	722.9	722.9
7.5°	719.4	718.7	716.6	719.4	719.4
10°	713.8	713.8	711.0	714.5	713.8
12.5°	707.5	706.8	705.4	708.2	707.5
15°	699.1	699.1	697.0	699.8	699.1
17.5°	690.7	690.0	687.9	690.7	690.7
20°	678.8	678.1	677.4	680.2	680.9
22.5°	666.2	665.5	664.8	669.0	669.0
25°	652.2	652.2	651.5	655.7	656.4
27.5°	636.8	636.8	637.5	643.1	642.4
30°	620.7	620.7	622.1	626.3	626.3
32.5°	601.1	602.5	605.3	610.2	610.2
35°	582.2	583.6	587.1	592.7	592.7
37.5°	561.2	563.3	566.8	573.8	575.2
40°	540.2	541.6	545.8	553.5	553.5
42.5°	517.2	518.6	524.2	531.9	530.5
45°	491.3	495.5	502.5	506.7	500.4
47.5°	466.8	469.6	479.4	474.5	464.0
50°	438.8	444.4	454.2	436.7	426.9
52.5°	410.1	416.4	426.9	402.4	396.8
55°	381.4	389.1	392.6	372.3	366.7
57.5°	350.6	359.0	352.0	340.1	334.5
60°	319.8	329.6	319.1	307.9	304.4
62.5°	287.6	298.8	286.9	277.1	272.2
65°	253.3	268.7	254.7	244.9	240.7
67.5°	219.7	235.8	221.1	212.7	209.9
70°	188.2	197.3	190.3	181.9	176.4
72.5°	150.5	159.6	158.2	149.1	145.6
75°	119.7	128.1	125.3	117.6	114.1
77.5°	88.9	98.0	95.2	86.1	84.7
80°	63.7	70.0	65.1	56.7	53.9
82.5°	39.9	44.8	38.5	32.2	30.8
85°	21.0	22.4	18.2	16.1	15.4
87.5°	7.0	7.7	7.7	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)